

CRF Errors Corrected by the STIC Systems Branch

0570  
0319  
OIP #10

Serial Number: 09/722,544A

CRF Processing Date: 3/25/2002  
Edited by: AL  
Verified by: AL (STIC staff)

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☒ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 3
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_



## RAW SEQUENCE LISTING

DATE: 03/25/2002

PATENT APPLICATION: US/09/722,544A

TIME: 12:43:36

Input Set : A:\07334-362001.txt

Output Set: N:\CRF3\03222002\I722544A.raw

p.6

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3 <110> APPLICANT: Hong, Chen
4   Freimer, Nelson B.
6 <120> TITLE OF INVENTION: METHODS OF DIAGNOSING NEUROPSYCHIATRIC DISORDERS
8 <130> FILE REFERENCE: 07334-362001
10 <140> CURRENT APPLICATION NUMBER: 09/722,544A
11 <141> CURRENT FILING DATE: 2000-11-28
13 <150> PRIOR APPLICATION NUMBER: 09/236,134
14 <151> PRIOR FILING DATE: 1999-01-22
16 <150> PRIOR APPLICATION NUMBER: 60/078,044
17 <151> PRIOR FILING DATE: 1998-03-16
19 <150> PRIOR APPLICATION NUMBER: 60/088,312
20 <151> PRIOR FILING DATE: 1998-06-05
22 <150> PRIOR APPLICATION NUMBER: 60/106,056
23 <151> PRIOR FILING DATE: 1998-10-28
25 <160> NUMBER OF SEQ ID NOS: 33
27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2055
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (285)...(1769)
38 <400> SEQUENCE: 1
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40 tgtgccctcg gctgacttcc agccgggtggc acagacgcct ccaggggggca gcactcaagc      120
41 gcatcttagg aatgacagag ttgcgtccct ctctgttgcc aggctggagt tcagtggcat      180
42 gttcttagct cactgaagcc tcaaattcct gggttcaagt gacctccca cctcagcccc      240
43 atgaggacct gggactacag gacacagcta aatccctgac acgg atg aaa att aaa      296
44                                     Met Lys Ile Lys
45                                     1
47 gca gag aaa aac gaa ggt cct tcc aga agc tgg tgg caa ctt cac tgg      344
48 Ala Glu Lys Asn Glu Gly Pro Ser Arg Ser Trp Trp Gln Leu His Trp
49 5      10      15      20
51 gga gat att gca aat aac agc ggg aac atg aag ccg cca ctc ttg gtg      392
52 Gly Asp Ile Ala Asn Asn Ser Gly Asn Met Lys Pro Pro Leu Leu Val
53      25      30      35
55 ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca ccc act      440
56 Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala Pro Thr
57      40      45      50
59 tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt tct gag      488
60 Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe Ser Glu
61      55      60      65

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63	gtg ggg gag ata gat gca gat gaa gag gtg aag aag gct ttg act ggt	536
64	Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu Thr Gly	
65	70 75 80	
67	att aag caa atg aaa atc atg atg gaa aga aaa gag aag gaa cac acc	584
68	Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu His Thr	
69	85 90 95 100	
71	aat cta atg agc acc ctg aag aaa tgc aga gaa gaa aag cag gag gcc	632
72	Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu Lys Gln Glu Ala	
73	105 110 115	
75	ctg aaa ctt ctg aat gaa gtt caa gaa cat ctg gag gaa gaa gaa agg	680
76	Leu Lys Leu Leu Asn Glu Val Gln Glu His Leu Glu Glu Glu Arg	
77	120 125 130	
79	cta tgc cgg gag tct ttg gca gat tcc tgg ggt gaa tgc agg tct tgc	728
80	Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu Cys Arg Ser Cys	
81	135 140 145	
83	ctg gaa aat aac tgc atg aga att tat aca acc tgc caa cct agc tgg	776
84	Leu Glu Asn Asn Cys Met Arg Ile Tyr Thr Thr Cys Gln Pro Ser Trp	
85	150 155 160	
87	tcc tct gtg aaa aat aag att gaa cgg ttt ttc agg aag ata tat caa	824
88	Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg Lys Ile Tyr Gln	
89	165 170 175 180	
91	ttt cta ttt cct ttc cat gaa gat aat gaa aaa gat ctc ccc atc agt	872
92	Phe Leu Phe Pro Phe His Glu Asp Asn Glu Lys Asp Leu Pro Ile Ser	
93	185 190 195	
95	gaa aag ctc att gag gaa gat gca caa ttg acc caa atg gag gat gtg	920
96	Glu Lys Leu Ile Glu Glu Asp Ala Gln Leu Thr Gln Met Glu Asp Val	
97	200 205 210	
99	ttc agc cag ttg act gtg gat gtg aat tct ctc ttt aac agg agt ttt	968
100	Phe Ser Gln Leu Thr Val Asp Val Asn Ser Leu Phe Asn Arg Ser Phe	
101	215 220 225	
103	aac gtc ttc aga cag atg cag caa gag ttt gac cag act ttt caa tca	1016
104	Asn Val Phe Arg Gln Met Gln Gln Glu Phe Asp Gln Thr Phe Gln Ser	
105	230 235 240	
107	cat ttc ata tca gat aca gac cta act gag cct tac ttt ttt cca gct	1064
108	His Phe Ile Ser Asp Thr Asp Leu Thr Glu Pro Tyr Phe Phe Pro Ala	
109	245 250 255 260	
111	ttc tct aaa gag ccg atg aca aaa gca gat ctt gag caa tgt tgg gac	1112
112	Phe Ser Lys Glu Pro Met Thr Lys Ala Asp Leu Glu Gln Cys Trp Asp	
113	265 270 275	
115	att ccc aac ttc ttc cag ctg ttt tgt aat ttc agt gtc tct att tat	1160
116	Ile Pro Asn Phe Phe Gln Leu Phe Cys Asn Phe Ser Val Ser Ile Tyr	
117	280 285 290	
119	gaa agt gtc agt gaa aca att act aag atg ctg aag gca ata gaa gat	1208
120	Glu Ser Val Ser Glu Thr Ile Thr Lys Met Leu Lys Ala Ile Glu Asp	
121	295 300 305	
123	tta cca aaa caa gac aaa gct cct gac cac gga ggc ctg att tca aag	1256
124	Leu Pro Lys Gln Asp Lys Ala Pro Asp His Gly Gly Leu Ile Ser Lys	
125	310 315 320	
127	atg tta cct ggg cag gac aga gga ctg tgt ggg gaa ctt gac cag aat	1304

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128 Met Leu Pro Gly Gln Asp Arg Gly Leu Cys Gly Glu Leu Asp Gln Asn
129 325                               330                               335                               340
131 ttg tca aga tgt ttc aaa ttt cat gaa aaa tgc caa aaa tgt cag gct      1352
132 Leu Ser Arg Cys Phe Lys Phe His Glu Lys Cys Gln Lys Cys Gln Ala
133                               345                               350                               355
135 cac cta tct gaa gac tgt cct gat gta cct gct ctg cac aca gaa tta      1400
136 His Leu Ser Glu Asp Cys Pro Asp Val Pro Ala Leu His Thr Glu Leu
137                               360                               365                               370
139 gac gag gcg atc agg ttg gtc aat gta tcc aat cag cag tat ggc cag      1448
140 Asp Glu Ala Ile Arg Leu Val Asn Val Ser Asn Gln Gln Tyr Gly Gln
141                               375                               380                               385
143 att ctc cag atg acc cgg aag cac ttg gag gac acc gcc tat ctg gtg      1496
144 Ile Leu Gln Met Thr Arg Lys His Leu Glu Asp Thr Ala Tyr Leu Val
145                               390                               395                               400
147 gag aag atg aga ggg caa ttt ggc tgg gtg tct gaa ctg gca aac cag      1544
148 Glu Lys Met Arg Gly Gln Phe Gly Trp Val Ser Glu Leu Ala Asn Gln
149 405                               410                               415                               420
151 gcc cca gaa aca gag atc atc ttt aat tca ata cag gta gtt cca agg      1592
152 Ala Pro Glu Thr Glu Ile Ile Phe Asn Ser Ile Gln Val Val Pro Arg
153                               425                               430                               435
155 att cat gaa gga aat att tcc aaa caa gat gaa aca atg atg aca gac      1640
156 Ile His Glu Gly Asn Ile Ser Lys Gln Asp Glu Thr Met Met Thr Asp
157                               440                               445                               450
159 tta agc att ctg cct tcc tct aat ttc aca ctc aag atc cct ctt gaa      1688
160 Leu Ser Ile Leu Pro Ser Ser Asn Phe Thr Leu Lys Ile Pro Leu Glu
161                               455                               460                               465
163 gaa agt gct gag agt tct aac ttc att ggc tac gta gtg gca aaa gct      1736
164 Glu Ser Ala Glu Ser Ser Asn Phe Ile Gly Tyr Val Val Ala Lys Ala
165                               470                               475                               480
167 cta cag cat ttt aag gaa cat ttt aaa acc tgg taagaagatc taatgcatcc      1789
168 Leu Gln His Phe Lys Glu His Phe Lys Thr Trp
169 485                               490                               495
171 tatatccagt aagtagaatt atctcttcat ctgggacctg gaaatcctga aataaaaaaag      1849
172 gataatgcaa taaacacagt tgcaggaaag tatgttagct atatactatg aagtactctt      1909
173 agtttactta tgttgaatgg cttagctatt aataactcaa ttgagttaaa atgaaaattc      1969
174 ctctttaaaa aatcaaacgt aatatgtatt acatttcatg gtacattagt agttctttgt      2029
175 atattgaata aatactaaat caccta                                2055
177 <210> SEQ ID NO: 2
178 <211> LENGTH: 495
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 2
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185 Gln Leu His Trp Gly Asp Ile Ala Asn Asn Ser Gly Asn Met Lys Pro
186                               20                               25                               30
187 Pro Leu Leu Val Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His
188                               35                               40                               45
189 Cys Ala Pro Thr Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys

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190      50      55      60
191 Ser Phe Ser Glu Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys
192 65      70      75      80
193 Ala Leu Thr Gly Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu
194      85      90      95
195 Lys Glu His Thr Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu
196      100      105      110
197 Lys Gln Glu Ala Leu Lys Leu Leu Asn Glu Val Gln Glu His Leu Glu
198      115      120      125
199 Glu Glu Glu Arg Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu
200      130      135      140
201 Cys Arg Ser Cys Leu Glu Asn Asn Cys Met Arg Ile Tyr Thr Thr Cys
202 145      150      155      160
203 Gln Pro Ser Trp Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg
204      165      170      175
205 Lys Ile Tyr Gln Phe Leu Phe Pro Phe His Glu Asp Asn Glu Lys Asp
206      180      185      190
207 Leu Pro Ile Ser Glu Lys Leu Ile Glu Glu Asp Ala Gln Leu Thr Gln
208      195      200      205
209 Met Glu Asp Val Phe Ser Gln Leu Thr Val Asp Val Asn Ser Leu Phe
210      210      215      220
211 Asn Arg Ser Phe Asn Val Phe Arg Gln Met Gln Gln Glu Phe Asp Gln
212 225      230      235      240
213 Thr Phe Gln Ser His Phe Ile Ser Asp Thr Asp Leu Thr Glu Pro Tyr
214      245      250      255
215 Phe Phe Pro Ala Phe Ser Lys Glu Pro Met Thr Lys Ala Asp Leu Glu
216      260      265      270
217 Gln Cys Trp Asp Ile Pro Asn Phe Phe Gln Leu Phe Cys Asn Phe Ser
218      275      280      285
219 Val Ser Ile Tyr Glu Ser Val Ser Glu Thr Ile Thr Lys Met Leu Lys
220      290      295      300
221 Ala Ile Glu Asp Leu Pro Lys Gln Asp Lys Ala Pro Asp His Gly Gly
222 305      310      315      320
223 Leu Ile Ser Lys Met Leu Pro Gly Gln Asp Arg Gly Leu Cys Gly Glu
224      325      330      335
225 Leu Asp Gln Asn Leu Ser Arg Cys Phe Lys Phe His Glu Lys Cys Gln
226      340      345      350
227 Lys Cys Gln Ala His Leu Ser Glu Asp Cys Pro Asp Val Pro Ala Leu
228      355      360      365
229 His Thr Glu Leu Asp Glu Ala Ile Arg Leu Val Asn Val Ser Asn Gln
230      370      375      380
231 Gln Tyr Gly Gln Ile Leu Gln Met Thr Arg Lys His Leu Glu Asp Thr
232 385      390      395      400
233 Ala Tyr Leu Val Glu Lys Met Arg Gly Gln Phe Gly Trp Val Ser Glu
234      405      410      415
235 Leu Ala Asn Gln Ala Pro Glu Thr Glu Ile Ile Phe Asn Ser Ile Gln
236      420      425      430
237 Val Val Pro Arg Ile His Glu Gly Asn Ile Ser Lys Gln Asp Glu Thr
238      435      440      445

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DATE: 03/25/2002

TIME: 12:43:36

Input Set : A:\07334-362001.txt

Output Set: N:\CRF3\03222002\I722544A.raw

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239 Met Met Thr Asp Leu Ser Ile Leu Pro Ser Ser Asn Phe Thr Leu Lys
240      450      455      460
241 Ile Pro Leu Glu Glu Ser Ala Glu Ser Ser Asn Phe Ile Gly Tyr Val
242 465      470      475      480
243 Val Ala Lys Ala Leu Gln His Phe Lys Glu His Phe Lys Thr Trp
244      485      490      495
246 <210> SEQ ID NO: 3
247 <211> LENGTH: 1957
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <220> FEATURE:
252 <221> NAME/KEY: CDS
253 <222> LOCATION: (241)...(1671)
255 <400> SEQUENCE: 3
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257 tgtgccctcg gctgacttcc agccggtggc acagacgcct ccagggggca gcactcaagc 120
258 gcatcttagg aatgacagag ttgcgtccct ctckgttgcc aggctggagt tcagtggcat 180
259 gttcwtagct cactgaagcc tcaaattcct gggttcaagt gaccctccya cctcagcccc 240
260 atg agg acc tgg gac tac agt aac agc ggg aac atg aag ccg cca ctc 288
261 Met Arg Thr Trp Asp Tyr Ser Asn Ser Gly Asn Met Lys Pro Pro Leu
262 1      5      10      15
264 ttg gtg ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca 336
265 Leu Val Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala
266      20      25      30
268 ccc act tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt 384
269 Pro Thr Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe
270      35      40      45
272 tct gag gtg ggg gag ata gat gca gat gaa gag gtg aag aag gct ttg 432
273 Ser Glu Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu
274      50      55      60
276 act ggt att aag caa atg aaa atc atg atg gaa aga aaa gag aag gaa 480
277 Thr Gly Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu
278 65      70      75      80
280 cac acc aat cta atg agc acc ctg aag aaa tgc aga gaa gaa aag cag 528
281 His Thr Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu Lys Gln
282      85      90      95
284 gag gcc ctg aaa ctt ctg aat gaa gtt caa gaa cat ctg gag gaa gaa 576
285 Glu Ala Leu Lys Leu Leu Asn Glu Val Gln Glu His Leu Glu Glu Glu
286      100      105      110
288 gaa agg cta tgc cgg gag tct ttg gca gat tcc tgg ggt gaa tgc agg 624
289 Glu Arg Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu Cys Arg
290      115      120      125
292 tct tgc ctg gaa aat aac tgc atg aga att tat aca acc tgc caa cct 672
293 Ser Cys Leu Glu Asn Asn Cys Met Arg Ile Tyr Thr Thr Cys Gln Pro
294      130      135      140
296 agc tgg tcc tct gtg aaa aat aag att gaa cgg ttt ttc agg aag ata 720
297 Ser Trp Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg Lys Ile
298 145      150      155      160
300 tat caa ttt cta ttt cct ttc cat gaa gat aat gaa aaa gat ctc ccc 768

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 03/25/2002  
PATENT APPLICATION: US/09/722,544A      TIME: 12:43:38

Input Set : A:\07334-362001.txt  
Output Set: N:\CRF3\03222002\I722544A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 14635,14685,29727,29879,29880,29930,29939,29950,29953,41743  
Seq#:7; N Pos. 41754,41758,41764,41778,41781,41796,52480,55325,56658,59051  
Seq#:7; N Pos. 59067,59070,59073,59093,59146,59148,59149,59151,59172,59178  
Seq#:7; N Pos. 72168,72236,72243,72247,72303,72308,72312